

4th Danube Financing Dialogue



REPUBLIKA HRVATSKA
Ministarstvo regionalnoga razvoja
i fondova Europske unije



CROATIAN NATIONAL BANK

IUS is a nonprofit educational and research institution, and is one of the top universities in Bosnia and Herzegovina. The university comprises the Faculty of Engineering and Natural Sciences; the Faculty of Business and Administration; and the Faculty of Arts and Social Sciences. IUS has students from 20 countries studying in different areas.

Accumulator plants in Brassicaceae

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Project description

Recent studies show pollution of heavy metals, especially Cd, Pb, Hg and Zn in Zenica and northern Bosnia (the regions close to the Sava river, and tributaries of Danube). Cadmium, chromium, copper, nickel, iron, manganese, lead and zinc contamination has been found in areas surrounding the Bosnia River. We are intending to use accumulator plants for remediation of these metals from the contaminated areas of Bosnia and Herzegovina.

Project goal

Our goal is to find suitable accumulator plants to remediate metal-contaminated soils, especially in Brassicaceae. We also want to analyze the expression of heavy metal ATPases shown to play a key role in metal hyperaccumulation in plants.

Beneficiaries and target groups

Beneficiaries

Agriculture, forestry, horticulture and food industries

Target groups

Agricultural communities engaged in farming

Constraints and risk appraisal

There is no important risk that can significantly affect the agricultural communities in Bosnia or/and in surrounding countries. Field experiments require cooperation from agricultural institutions.

Type of financial product searching for

- Grant

Sectors

- Environment and green business
- Innovative technologies, agriculture and rural areas
- Research, education and labour market

Countries engaged in the project

- Bosnia and Herzegovina
- Croatia
- Germany
- Serbia
- Slovenia

Budget planning in EUR

Cost breakdown (Senior Expert, equipment, ...)	Year 1 (in EUR)	Year 2 (in EUR)	Year 3 (in EUR)
Equipment	€30.000	€30.000	€15.000
Laboratory chemicals	€20.000	€20.000	€20.000
Sequencing, microarray, antibodies prod.	€40.000	€50.000	€40.000
MSc and PhD students	€20.000	€20.000	€15.000
Senior expert(s)	€10.000	€10.000	€10.000
Total	€120.000	€130.000	€100.000